

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1 Claims 1-56 (Canceled).

57. (Previously added) A method of providing wireless communication between a plurality of communication devices forming a group, such that each device receives transmissions from each other device in said group, comprising the steps of selecting one of said devices as a master, transmitting from said master to each other device using a preselected channel, synchronizing each other device to said master, transmitting from each other device to said master using said preselected channel, combining said signals from each other device at said master, and transmitting said combined signals as a single signal from said master to said each other device to be received at each other device.

58. (Previously added) A method according to claim 57 wherein transmission between said master and said other devices is carried out using any one of time division duplex or frequency division duplex or code division multiple access or time division multiple access or frequency division multiple access.

59. (Previously added) A method according to claim 57 wherein said signals from said other devices are not mutually synchronized and wherein, upon receipt at said master, they are demodulated using a pseudo-random shifted local oscillator.

60. (Previously added) A method according to claim 58 wherein said signals from said other devices are not mutually synchronized and wherein, upon receipt at said master, they are demodulated using a pseudo-random shifted local oscillator.

61. (Previously added) A method according to claim 57 wherein failure of said master is followed by selection for another one of said communication devices to serve as a master.

62. (Previously added) A method according to claim 57 wherein at least one of said other devices has a sound input site and a sound output site, wherein sound is converted into an electronic signal after passing through said sound input site, wherein said electronic signal is transmitted to said master, wherein said signal received from said master includes said electronic signal sent to said master, and wherein said received signal is converted into sound at said sound output site.

63. (Previously added) A method according to claim 57 wherein a tone is added to signals transmitted by said master and wherein said tone is used by at least one of said other devices to correlate with said master.

64. (Previously added) A method according to claim 63 wherein said signals transmitted with said tone are shaped using a Gaussian curve.

65. (Previously added) A method according to claim 57 comprising the step of shifting a base frequency used for transmission upon detection by said master of other groups operating in the vicinity.

66. (Previously added) A communication device for use in a method of providing wireless communication between a plurality of communication devices forming a group, such that each device receives transmissions from each other device in said group, comprising the steps of:

selecting one of said devices as a master;
transmitting from said master to each other device using a preselected channel;
synchronizing each other device to said master;
transmitting from each other device to said master using said preselected channel;
combining said signals from each other device at said master; and
transmitting said combined signals as a single signal from said master to said each other device to be received at each other device,

said device comprising circuitry for operation as one of said other devices and comprising additional circuitry for operations as said master, and further comprising a switching circuit for switching between said circuitry.

67. (Previously added) A communication device according to claim 66 wherein said switching circuit is operable in response to a polling operation carried out between all said communication devices in said group.

68. (Previously added) A method according to claim 57 wherein said signals received at said master are of variable strength, and are adjusted gainwise in accordance with said strength of a weakest signal.

69. (Previously added) A method according to claim 57 wherein said sounds output by said communication devices are permitted to vary in strength according to the strength of a respective received signal.

70. (Previously added) A method according to claim 68 wherein said sounds output by said communication devices are permitted to vary in strength according to the strength of a respective received signal.

71. (Previously added) A method according to claim 57 wherein a tone is added to signals transmitted by said master and wherein said tone is used by at least one of said other devices to correlate with said master, wherein a second tone is added by said one of said other devices to a signal sent to said master, wherein said signal is echoed back by said master to said one of said other devices, wherein said signal sent to said master is used by said one of said other devices to measure a delay time involved in transmitting to said master by auto-correlating said second tone, and wherein said measured delay time is used to time transmissions from said one of said other devices so as to compensate for said delay time.

72. (Previously added) A communication device adapted for use in a method of providing wireless communication between a plurality of communication devices forming a

group, such that each device receives transmissions from each other device in said group, comprising the steps of:

selecting one of said devices as a master;
transmitting from said master to each other device using a preselected channel;
synchronizing each other device to said master;
transmitting from each other device to said master using said preselected channel;
combining said signals from each other device at said master; and
transmitting said combined signals as a single signal from said master to said each other device to be received at each other device.

73. (Previously added) At least three transmitter-receiver radio devices, wherein one of said devices is designated as master, wherein each other of said devices is adapted to transmit to said master over one channel of a dual channel link and to receive from said master over a second channel of said dual channel link, and wherein all of said devices are adapted to use said dual channel link.

74. (Previously added) At least two transmitter-receiver radio devices, wherein one of said devices is designated as master, wherein each other of said devices is adapted to transmit to said master over one channel of a dual channel link and to receive from said master over a second channel of said dual channel link, wherein no operable connection is provided between said microphone and said sound output device of each other of said devices, and wherein operable connection is provided between said microphone and said sound output device of said master.

75. (Previously added) At least two transmitter-receiver radio devices, wherein one of said devices is designated as master, wherein each other of said devices is adapted to transmit to said master over one channel of a dual channel link and to receive from said master over a second channel of said dual channel link, wherein each device has a sound output unit, and wherein the volume of a sound output unit, and wherein related to the strength of a received signal.

76. (Previously added) At least three transmitter-receiver radio devices, wherein one of said devices is designated a master, wherein each other of said devices is adapted to transmit to said master over one channel of a dual channel link and to receive from said master over a second channel of said dual channel link, wherein said master comprises a tone production device, and an adder connected to said tone production device, adapted to add a tone from said tone production device to any transmitted signal, and wherein at least one other of said devices is adapted to use said tone to correlate to said master.

77. (Previously added) At least three transmitter-receiver radio devices, wherein one of said devices is designated a master, wherein each other of said devices is adapted to transmit to said master over one channel of a dual channel link and to receive from said master over a second channel of said dual channel link, wherein at least one other of said devices comprises a tone production device, and an adder connected to said tone production device, adapted to add a tone from said tone production device to any transmitted signal, wherein said other device comprises a measuring unit for measuring a distance related delay in said transmission from a received tone received in said second channel by calculating an autocorrelation coefficient between said tone as transmitted and said tone as received, and a calculating unit for calculating a transmission time offset correction from said calculated autocorrelation coefficient, and wherein said at least one other device has an offset unit for re-timing transmissions in accordance with said transmission time offset correction.

78. (Previously added) At least three transmitter-receiver radio devices, wherein one of said devices is designated as master, wherein each other of said devices is adapted to transmit to said master over one channel of a dual channel link and to receive from said master over a second channel of said dual channel link, and wherein said master comprises a demodulating unit and a phase shifting unit.

79. (Previously added) A system or transmitter-receiver radio devices according to claim 73 adapted to operate using code division multiple access or time division multiple access or frequency division multiple access.

80. (Previously added) A system or transmitter-receiver radio devices according to claim 74 adapted to operate using code division multiple access or time division multiple access or frequency division multiple access.

81. (Previously added) A system or transmitter-receiver radio devices according to claim 75 adapted to operate using code division multiple access or time division multiple access or frequency division multiple access.

82. (Previously added) A system or transmitter-receiver radio devices according to claim 76 adapted to operate using code division multiple access or time division multiple access or frequency division multiple access.

83. (Previously added) A system or transmitter-receiver radio devices according to claim 77 adapted to operate using code division multiple access or time division multiple access or frequency division multiple access.

84. (Previously added) A system or transmitter-receiver radio devices according to claim 78 adapted to operate using code division multiple access or time division multiple access or frequency division multiple access.

85. (Previously added) A system of transmitter-receiver radio devices according to claim 73 wherein said dual channel link is time division duplex or frequency division duplex.

86. (Previously added) A system of transmitter-receiver radio devices according to claim 74 wherein said dual channel link is time division duplex or frequency division duplex.

87. (Previously added) A system of transmitter-receiver radio devices according to claim 75 wherein said dual channel link is time division duplex or frequency division duplex.

88. (Previously added) A system of transmitter-receiver radio devices according to claim 76 wherein said dual channel link is time division duplex or frequency division duplex.

89. (Previously added) A system of transmitter-receiver radio devices according to claim 77 wherein said dual channel link is time division duplex or frequency division duplex.

90. (Previously added) A system of transmitter-receiver radio devices according to claim 78 wherein said dual channel link is time division duplex or frequency division duplex.

91. (Previously added) A system of transmitter-receiver radio devices according to claim 79 wherein said dual channel link is time division duplex or frequency division duplex.